

Name: _____ Date: _____

Directions: In this activity, student will use the internet and Google Earth Pro to discover general information about the world's volcanoes. Students should log into Google Earth Pro, and then add the volcano layer, by going to: the layer panel >> geographic web >> places >> preview >> volcanoes. When there, students should use this layer to answer the questions written below. Students will create a presentation in PowerPoint of their research and submit it to the First Class geology workgroup.

Questions:

1. Use Google Earth and the Internet to check out some of these interesting volcanic places in the United States. For each place, collect a picture, an image of it from Google Earth, and provide a brief description. Consider the following characteristics in your description: size, height, shape, color, ejecta, or other unusual features. (15 points)

#	Name	Location (Latitude & Longitude)	Picture	GE Image	Brief Description
a.	Devils Tower				
b.	Yellowstone Caldera				
c.	Craters of the Moon				
d.	Crater Lake				
e.	Mount St. Helens				

2. Use Google Earth and the Internet to check out 3 of the following Volcanoes. For each volcano, research the location, highest elevation, type of volcano, date of last eruption, and any interesting facts. Also, collect a picture and Google Earth image of each and place it in your presentation. (21 points)

#	Name	Location (Latitude & Longitude)	Picture	GE Image	Volcano Type	Elevation	Date of Last Eruption	Interesting Facts
a.	Mount Vesuvius, Italy							
b.	Mount Kilimanjaro, Tanzania							
c.	Mount Hekla, Iceland							
d.	Mount Kilauea, Hawaii							
e.	Mount Pinatubo, Philippines							
f.	Mount Arenal, Costa Rica							
g.	Mount Fuji, Japan							

3. A number of USGS volcano observatories exist around the world. Use the website below to identify 3 of these observatories. On your slide, provide a title, a link to its website, list of one or more of the major volcanoes they monitor, and an image of the building's location in Google Earth. If you click on the placemark, it should provide the address of the building. Include this in your GE image. Resource: <http://volcanoes.usgs.gov/> (6 points)
4. A number of live volcano feeds exist on the Internet. Find one and describe what you see. Import a snapshot of it into your PowerPoint presentation. (1 point)
5. Super volcanoes are massive eruptions that cause global catastrophes and usually form calderas. What is a caldera? Use Google Earth to find one of them and describe what you see. What surface evidence is there for them in Google Earth? Make sure to include an overhead image of it from Google Earth. Resources: <http://www.pbs.org/wgbh/nova/megavolcano/about.html> (3 points)
6. What is an igneous province? Identify one of these in Google Earth. What evidence do you see for it on the surface? Make sure to include an overhead image of it from Google Earth. Resource: <http://en.wikipedia.org/wiki/Supervolcano> (3 points)
7. There is actually a volcano that ejects gold dust in Antarctica. On your slide, provide its name, location, a Google Earth image. (2 points)
8. There are many instances of volcanic activity on other planets in our solar system. Find one of these and be prepared to discuss some general information about it. On your slide, make sure to include some general information about it and a picture of it. Resource: <http://geology.com/articles/active-volcanoes-solar-system.shtml> (3 points)

Total: 82 Points